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1/1 - (C) Derwent

TI - Anti:reflecting plastic lens prodn. - by coating acrylic] terpolymer with polyurethane resin soln., then with silicone layer and finally with anti:reflecting inorganic cpd.

PA - (HOYA) HOYA CORP

PR - 86JP-232786 860930

PN - J63087223 A 880418 DW8821

AB - J63087223 A plastic lense is prepd. by coating polyurethane resin soln. onto a plastic lense base comprising a terpolymer of cpds. (1), (2) and (3) to a film thickness of 0.01-30 microns and heating to form a primer layer, forming a cured silicone resin layer, and forming a reflection-preventing mono- or multi-layer of vapour-deposited inorganic cpd..

R1 and R2 are H or methyl. The polyurethane resin is prepd. with (a) a diol of an alkylene glycol, a polyalkylene glycol, poly(alkylene adipate), poly-epsilon-caprolactone, polybutadiene, poly(alkylene carbonate), or silicone polyol, and (b) a diisocyanate.

Pref. the inorganic cpd. for the reflection preventing layer is SiO₂, ZrO₂, TiO₂, etc. formed by vacuum deposition, sputtering, ion plating, etc. Cured silicone layer comprises methyl trimethoxysilane, phenyl trimethoxysilane, etc.

ADVANTAGE - The reflection preventing property is high. Impact strength complies with the US FDA standard. The lens has superior delamination resistance, heat resistance, weathering, and anti-scratching properties. (8pp Dwg.No.0/0)

Question 4